

(19)



JAPANESE PATENT OFFICE

PATENT ABSTRACTS OF JAPAN

(11) Publication number: 03159409 A

(43) Date of publication of application: 09.07.91

(51) Int. Cl

H03F 3/217

H03F 1/30

H03G 3/02

(21) Application number: 01298957

(22) Date of filing: 17.11.89

(71) Applicant: FUJITSU TEN LTD

(72) Inventor: YAMATO TOSHITAKA

KOWAKI HIROSHI

FUJIMOTO SHOJI

KAMIMURA MASATSUGU

(54) COMPENSATION CIRCUIT FOR POWER SUPPLY FLUCTUATION OF SWITCHING AMPLIFIER

that it becomes small as the output level of the volume 51 increases.

(57) Abstract:

COPYRIGHT: (C)1991,JPO&Japio

PURPOSE: To remove influence by reflecting power fluctuation on the input (PWM signal) of a switching amplifier.

CONSTITUTION: A PCM/PWM converter 10 is provided with a PWM conversion part 11 converting the output (PCM signal) of a volume 51 into the PWM signal, a correction factor calculation part 12 calculating the correction factor α of a pulse width from a fluctuated quantity with a power source V_{cc} detected in a power fluctuation detection circuit 30, a weighting calculation part 13 calculating a weighting coefficient β from the coefficient of the volume 51 detected in a volume position detection circuit 40 and a synthesis part 14 correcting the pulse width of the PWM signal obtained in the PWM conversion part 11 by using the correction factor α and the weighting coefficient β . The correction factor α of power fluctuation is proportional to V_{cc}/V'_{cc} if V_{cc} is set to be a maximum value and V'_{cc} to be a present value. On the other hand, the weighting coefficient β has a characteristic

